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November 7, 1997

CERTIFIED MAIL

FILE COP

Mr. David Domingo EPA Project Coordinator U.S. EPA 1200 Sixth Avenue, M/S WCM-121 Seattle, WA 98101

Mr. Domingo:

Following is the Bimonthly Progress Report required by the 3008(h) Order (Burlington Environmental Inc. dba Philip Services Corp.) for RFI activities completed at the Port of Seattle Pier 91 Facility for the months of September and October 1997.

Description of Work Completed

- Ecology is going forward with the agency initiated permit modification to reference the MTCA order and rescind the 3008h order.
- Completed fourth quarter 1997 groundwater sampling and water/product levels in October.

Summary of All Findings

• Fourth guarter 1997 groundwater monitoring data are enclosed.

Projected Work for Next Reporting Period

- Complete first quarter 1998 groundwater sampling and water/product levels in January.
- Train Port of Seattle employees in ground water sampling techniques so that the Port can take over ground water sampling activities beginning with the second quarter sampling event. PSC will continue to analyze the samples and manage the data.

If you have any questions, please contact me at (425) 227-6121.

Respectfully,

Çarolyn Mayer

Corrective Actions Specialist

cc: Galen Tritt, Ecology NWRO

CAS Number		75-71-8	74-87-3	75-01-4	74-83-9	75-00-3	75-69-4	75-35-4	67-64-1	75-15-0
MTCA Method B (ug/l)		1600	3.37	0.023	11.2	PQL = 10	2400	0.0729	800	800
		Dichloro-					Trichloro-			多計算
		difluoro-	Chloro-	Vinyl	Bromo-	Chloro-	fluoro-			Carbon
在地区的景景。	Sample	methane	methane	chloride	methane	ethane	methane	1,1-DCE	Acetone	disulfide
Well Number	Date	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
CP-103A	10/10/97	<1	<1	<1	<1	9.07	<1	<1	<5	<1
CP-103B	10/10/97	<1	<1	<1	<1	<1	<1	<1	<5	<1
CP-104A	10/7/97	<1	1.09	1.07	<1	<1	<1	<1	18.1	1.04
CP-104B	10/7/97	<1	<1	<1	<1	<1	<1	<1	21.5	61.8
CP-106A	10/10/97	<1	<1	<1	<1	<1	<1	<1	8.37	<1
CP-106B	10/10/97	<1	<1	<1	<1	<1	<1	<1	<5	<1
CP-107	10/9/97	<1	<1	1.02	<1	9.02	<1	<1	21.2	1.16
CP-108A	10/7/97	<1	<1	<1	<1	6.41	<1	<1	10.2	<1
CP-108B	10/7/97	<1	<1	<1	<1	<1	<1	<1	16.1	1.84
CP-109	10/9/97	<1	<1	<1	<1	30.9	<1	<1	6.32	5.58
CP-110	10/10/97	<1	<1	<1	<1	7.95	<1	<1	<5	<1
CP-111	10/7/97	<1	<1	<1	<1	4.37	<1	<1	22.3	<1
CP-112	10/7/97	<1	<1	<1	<1	2.51	<1	<1	14.2	<1
CP-113	10/7/97	<1	<1	<1	<1	<1	<1	<1	8.41	<1
CP-114	10/10/97	<1	<1	<1	<1	<1	<1	<1	9.67	<1
CP-115A	10/13/97	<1	<1	<1	<1	<1	<1	<1	<5	<1
CP-115B	10/13/97	<1	<1	<1	<1	<1	<1	<1	5.94	1.09
CP-116	10/9/97	<1	<1	<1	<1	<1	<1	<1	10.2	<1
CP-117	10/9/97	<25	<25	<25	<25	52.3	<25	<25	<125	<25
CP-118	10/9/97	<1	<1	<1	<1	3.73	<1	<1	11.8	5.08
CP-119	10/9/97	<1	<1	<1	<1	46	<1	<1	<5	1.78
CP-121	10/13/97	<1	<1	<1	<1	<1	<1	≤1	6.54	<1/
CP-122B	10/10/97	<1	<1	<1	<1	<1	<1	<1	<5	</td
CP-205A	10/10/97	<1	<1	<1	<1	<1	<1	<1	<5	
CP-205B	10/10/97	<1	<1	<1	<1	<1	<1	<1	24.1	
MW-39-3	10/9/97	<1	<1	1.12	<1	20	<1	<1	249	Allega
W-10	10/13/97	<1	<1	<1	<1	<1	<1	<1	7.24	THE REAL PROPERTY.

P91_1097.XLS:VOCs

CAS Number		75-09-2	156-60-5	75-34-3	108-05-4	156-59-2	78-93-3	67-66-3	71-55-6	56-23-5
MTCA Method B (ug/l)		5.83	160	800	8000	80	4800	7.17	7200	0.337
									医沙克里	
经企业的 医皮肤										Carbon
		Methylene	trans-1,2-		Vinyl	cis-1,2-				tetra-
	Sample	chloride	DCE	1,1-DCA	acetate	DCE	2-Butanone	Chloroform	1,1,1-TCA	chloride
Well Number	Date	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
CP-103A	10/10/97	5.51	<1	<1	<1	<1	<5	<1	<1	<1
CP-103B	10/10/97	5.88	<1	<1	<1	<1	<5	<1	<1	<1
CP-104A	10/7/97	<5	<1	1.19	<1	1.36	<5	<1	<1	<1
CP-104B	10/7/97	<5	<1	4.86	<1	<1	<5	<1	<1	<1
CP-106A	10/10/97	7.39	<1	3.2	<1	3.18	<5	2.67	1.15	<1
CP-106B	10/10/97	9.53	<1	<1	<1	<1	<5	<1	<1	<1
CP-107	10/9/97	<5	<1	<1	<1	<1	42.8	<1	<1	<1
CP-108A	10/7/97	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-108B	10/7/97	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-109	10/9/97	5.79	<1	<1	<1	<1	<5	<1	<1	<1
CP-110	10/10/97	5.86	<1	<1	<1	<1	<5	<1	<1	<1
CP-111	10/7/97	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-112	10/7/97	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-113	10/7/97	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-114	10/10/97	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-115A	10/13/97	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-115B	10/13/97	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-116	10/9/97	<5	<1	1.3	<1	<1	<5	<1	<1	<1
CP-117	10/9/97	<125	<25	46.6	<25	58.2	<125	<25	<25	<25
CP-118	10/9/97	<5	<1	1.24	<1	<1	<5	<1	<1	<1
CP-119	10/9/97	<5	<1	12.9	<1	1.64	<5	1.85	<1	<1
CP-121	10/13/97	<5	<1	<1	<1	<1	<5	<1	<1	<1
CP-122B	10/10/97	8.33	<1	<1	<1	<1	<5	<1	<1	<1
CP-205A	10/10/97	<5	<1	<1	<1	<1	<5	<1.	<1	<1
CP-205B	10/10/97	7.09	<1	<1	<1	<1	5	<1	<1	<1
MW-39-3	10/9/97	22.9	<1	2.94	<1.	<1	20.4	<1	<1	<1
W-10	10/13/97	<5	<1	<1	<1	<1	<5	<1	<1	<1

CAS Number		107-06-2	71-43-2	79-01-6	78-87-5	75-27-4	10061-01-5	108-10-1	108-88-3
MTCA Method B (ug/l)		0.481	1.51	3.98	0.643	0.706	PQL = 5	400	1600
THE SECOND							对数据的	的。其特別	
					1,2-	Bromo-	cis-1,3-		
					Dichloro	dichloro	Dichloro-	4-Methyl-2-	West State of
AND THE PARTY	Sample	1,2-DCA	Benzene	TCE	propane	methane	propene	pentanone	Toluene
Well Number	Date	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
CP-103A	10/10/97	<1	4.3	<2	<1	<1	<1	<5	<2
CP-103B	10/10/97	<1	<1	<2	<1	<1	<1	<5	<2
CP-104A	10/7/97	<1	1.03	<2	<1	<1	<1	<5	<2
CP-104B	10/7/97	<1	<1	<2	<1	<1	<1	<5	<2
CP-106A	10/10/97	<1	<1	2.43	<1	<1	<1	<5	7.05
CP-106B	10/10/97	<1	<1	<2	<1	<1	<1	<5	8.12
CP-107	10/9/97	1	2.91	<2	<1	<1	<1	<5	46.9
CP-108A	10/7/97	<1	<1	<2	<1	<1	<1	<5	<2
CP-108B	10/7/97	<1	1.97	<2	<1	<1	<1	<5	<2
CP-109	10/9/97	1.29	37.2	<2	<1	<1	<1	<5	4.73
CP-110	10/10/97	<1	1.53	<2	<1	<1	<1	<5	<2
CP-111	10/7/97	<1	1.11	<2	<1	<1	<1	<5	<2
CP-112	10/7/97	<1	<1	<2	<1	<1	<1	<5	<2
CP-113	10/7/97	<1	<1	<2	<1	<1	<1	<5	2.84
CP-114	10/10/97	<1	<1	2.06	<1	<1	<1	<5	25.8
CP-115A	10/13/97	<1	<1	<2	<1	<1	<1	<5	<2
CP-115B	10/13/97	<1	<1	<2	<1	<1	<1	<5	<2
CP-116	10/9/97	<1	2.78	<2	<1	<1	<1	<5	<2
CP-117	10/9/97	<25	36.1	< 50	<25	<25	<25	<125	5170
CP-118	10/9/97	<1	19.5	<2	<1	<1	<1	<5	3.45
CP-119	10/9/97	5.08	46.2	<2	<1	<1	<1	<5	51.9
CP-121	10/13/97	<1	<1	2.54	<1	<1	<1	<5	18.7
CP-122B	10/10/97	<1	<1	<2	<1	<1	<1	<5	2.65
CP-205A	10/10/97	<1	<1	<2	<1	<1	<1	<5	<2
CP-205B	10/10/97	<1	<1	<2	<1	<1	<1	6.33	3.87
MW-39-3	10/9/97	2.84	6.58	6.53	<1	<1	<1	<5	156
W-10	10/13/97	<1	9.57	<2	<1	<1	<1	<5	8.03

CAS Number		10061-02-6	79-00-5	127-18-4	591-78-6	124-48-1	108-90-7	100-41-4	1330-20-7
MTCA Method B (ug/l)		PQL = 5	0.768	0.858	PQL = 50	0.521	160	800	16000
Well Number	Sample Date	Trans-1,3- Dichloro- propene (ug/l)	1,1,2- trichloro- ethane (ug/l)	PCE (ug/l)	2-Hexanone (ug/l)	Dibromo- chloro methane (ug/l)	Chloro- benzene (ug/l)	Ethyl- benzene (ug/l)	m,p-Xylenes (ug/l)
CP-103A	10/10/97	<1	<1	<1	<5	<1	<1	<1	<1
CP-103A CP-103B	10/10/97	<1	<1	<1	<5	<1	<1	<1	<1
CP-103B	10/7/97	<1	<1	<1	<5	<1	<1	<1	<1
CP-104A CP-104B	10/7/97	<1 <1	<1	<1	<5	<1	<1	<1	<1
CP-104B	10/10/97	<1	<1	<1	<5	<1	<1	<1	<1
CP-106B	10/10/97	<1	<1	<1	<5	<1	<1	<1	<1
CP-107	10/9/97	<1	<1	<1	<5	<1	<1	<1	7.73
CP-108A	10/7/97	<1	<1	<1	<5	<1	<1	<1	1.65
CP-108B	10/7/97	<1	<1	<1	<5	<1	<1	<1	<1
CP-109	10/9/97	<1	<1	<1	<5	<1	<1	1.93	3.64
CP-110	10/10/97	<1	<1	<1	<5	<1	<1	<1	2.76
CP-111	10/7/97	<1	<1	<1	<5	<1	<1	<1	<1
CP-112	10/7/97	<1	<1	<1	<5	<1	<1	<1	<1
CP-113	10/7/97	<1	<1	<1	<5	<1	<1	<1	<1
CP-114	10/10/97	<1	<1	<1	<5	<1	<1	1.01	5.7
CP-115A	10/13/97	<1	<1	<1	<5	<1	<1	<1	<1
CP-115B	10/13/97	<1	<1	<1	<5	<1	<1	<1	1.36
CP-116	10/9/97	<1	<1	<1	<5	<1	<1	<1	9.81
CP-117	10/9/97	<25	<25	<25	<125	<25	<25	9580	17900
CP-118	10/9/97	<1	<1	<1	<5	<1	<1	5.22	2.5
CP-119	10/9/97	<1	1.07	5.05	<5	<1	<1	19.3	54.5
CP-121	10/13/97	<1	<1	1.03	<5	<1	<1	<1	4.16
CP-122B	10/10/97	<1	<1	<1	<5	<1	<1	<1	<1
CP-205A	10/10/97	<1	<1	<1	<5	<1	<1	<1	<1
CP-205B	10/10/97	<1	<1	<1	<5	<1	<1	<1	<1
MW-39-3	10/9/97	<1	<1	<1	<5	<1	<1	21.8	79.7
W-10	10/13/97	<1	<1	<1	<5	<1	<1	<1	2.99

CAS Number		95-47-6	100-42-5	75-25-2	79-34-5	541-73-1	106-46-7	95-50-1	95-20-3
MTCA Method B (ug/l)		16000	1.46	5.54	0.219	PQL = 10	1.82	7.2	32
	Sample	o-Xylene	Styrene	Bromoform	1,1,2,2- tetrachloro- ethane	1,3- Dichloro- benzene	1,4- Dichloro- benzene	1,2- Dichloro- benzene	Naphthalene
Well Number	Date	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
CP-103A	10/10/97	<1	<1	<1	<3	<1	<1	<1	<5
CP-103B	10/10/97	<1	<1	<1	<3	<1	<1	<1	<5
CP-104A	10/7/97	<1	<1	<1	<3	<1	<1	<1	<5
CP-104B	10/7/97	<1	<1	<1	<3	<1	<1	<1	<5
CP-106A	10/10/97	<1	<1	<1	<3	<1	<1	<1	<5
CP-106B	10/10/97	<1	<1	<1	<3	<1	<1	<1	<5
CP-107	10/9/97	2.4	<1	<1	<3	1.96	2.63	1.01	<5
CP-108A	10/7/97	<1	<1	<1	<3	<1	<1	<1	<5
CP-108B	10/7/97	<1	<1	<1	<3	<1	<1	<1	<5
CP-109	10/9/97	4.03	<1	<1	<3	<1	<1	<1	<5
CP-110	10/10/97	1.44	<1	<1	<3	<1	<1	<1	<5
CP-111	10/7/97	<1	<1	<1	<3	<1	<1	<1	<5
CP-112	10/7/97	<1	<1	<1	<3	<1	<1	<1	<5
CP-113	10/7/97	<1	<1	<1	<3	<1	<1	<1	<5
CP-114	10/10/97	1.9	<1	<1	<3	<1	<1	<1	<5
CP-115A	10/13/97	<1	<1	<1	<3	<1	<1	<1	<5
CP-115B	10/13/97	<1	<1	<1	<3	<1	<1	<1	<5
CP-116	10/9/97	8.87	<1	<1	<3	<1	<1	4.41	28.1
CP-117	10/9/97	4520	<25	<25	<75	<25	<25	<25	<125
CP-118	10/9/97	4.58	<1	<1	<3	<1	<1	<1	<5
CP-119	10/9/97	39.6	<1	<1	<3	1.67	1.69	<1	<5
CP-121	10/13/97	1.25	<1	<1	<3	<1	<1	<1	<5
CP-122B	10/10/97	<1	<1	<1	<3	<1	<1	<1	<5
CP-205A	10/10/97	<1	<1	<1	<3	<1	<1	<1	<5
CP-205B	10/10/97	<1	3.01	<1	<3	<1	<1	<1	<5
MW-39-3	10/9/97	32.4	<1	<1	<3	1.53	2.54	1.34	<5
W-10	10/13/97	1.51	<1	<1	<3	<1	<1	<1	<5

CAS Number	三个人 的人的 中的主义	68334-30-5	86290-81-5	N/A
MTCA Method A (ug/l)		1000	1000	1000
		TPH as	TPH as	TPH
	Sample	Diesel	Gasoline	(4.18)
Well Number	Date	(mg/l)	(mg/l)	(mg/l)
CP-103A	10/10/97	1140	590	<1000
CP-103B	10/10/97	<250	<300	1500
CP-104A	10/7/97	<250	<300	<1000
CP-104B	10/7/97	<250	<300	<1000
CP-106A	10/10/97	<250	<300	<1000
CP-106B	10/10/97	<250	<300	<1000
CP-107	10/9/97	1210	4240	<1000
CP-108A	10/7/97	<250	<300	<1000
CP-108B	10/7/97	<250	<300	<1000
CP-109	10/9/97	6270	1970	3500
CP-110	10/10/97	<250	<300	<1000
CP-111	10/7/97	250	<300	<1000
CP-112	10/7/97	<250	<300	<1000
CP-113	10/7/97	<250	<300	<1000
CP-114	10/10/97	<250	<300	<1000
CP-115A	10/13/97	<250	<300	<1000
CP-115B	10/13/97	<250	<300	<1000
CP-116	10/9/97	1630	1210	1200
CP-117	10/9/97	22600	<300	6200
CP-118	10/9/97	13200	2000	16000
CP-119	10/9/97	1000		7000
CP-121	10/13/97	<250	<300	<1000
CP-122B	10/10/97	<250	<300	<1000
CP-205A	10/10/97	<250	<300	<1000
CP-205B	10/10/97	<250	<300	<1000
MW-39-3	10/9/97	6180	2260	7100
W-10	10/13/97	<250	4000	<1000